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TECH CENTER '810 2201

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/479,145A

DATE: 07/05/2001

TIME: 14:06:13

Input Set : A:\96700-595.ST25.txt

Output Set: N:\CRF3\07252001\I479145A.raw

ENTERED

3 <110> APPLICANT: David, Weinstein
 5 <120> TITLE OF INVENTION: NOVEL GROWTH FACTOR OPA1 AND USES THEREOF
 7 <130> FILE REFERENCE: 96700/595
 9 <140> CURRENT APPLICATION NUMBER: US 09/479,145A
 11 <141> CURRENT FILING DATE: 2000-01-07
 13 <150> PRIOR APPLICATION NUMBER: 09/294,764
 15 <151> PRIOR FILING DATE: 1999-04-19
 17 <160> NUMBER OF SEQ ID NOS: 4
 19 <170> SOFTWARE: PatentIn version 3.0
 21 <210> SEQ ID NO: 1
 23 <211> LENGTH: 1680
 25 <212> TYPE: DNA
 27 <213> ORGANISM: mouse
 29 <220> FEATURE:
 31 <221> NAME/KEY: Unsure
 33 <222> LOCATION: (1098)..(1104)
 35 <223> OTHER INFORMATION: n at positions 1098-1104 may be t, a, c, or g
 37 <400> SEQUENCE: 1

40 ttgaaactgg ttgcataaca qcagggtacc tgaagagacc ttctgggagt tagtgaacta 60
 42 ggtagattgt ttgtttcaca taacggccacc atcaacttaa agtgaattgt ctttggtata 120
 44 aatgagggtca ctatggactt accctaaaga tctctgttac ttctgtcttc cataggacaa 180
 46 atgalaagta ctacataact catctcttgg gtattatttg tagctcttga ctcattggtta 240
 48 tgaattttaa aataaataacc aattatggaa atagtaactaa aggcttgccg cacatgaaac 300
 50 attattttta ttgggttttaa gtccctttat aaagagtgtg acatgggtta gataaaggaa 360
 52 acatataact attgaattac aggggaattt actaattata aaatgcaatc aatttaaatt 420
 54 acgttaggttt aagactagtc ccttggtata gccccaagcg aatttgtctt cagattatta 480
 56 aaattagtgq tctaaatcac ggtgggcaat tccagaccct tctgaactga ctgaactaga 540
 58 gcttccagtc aagtgtcttg ctgagactga gcaccttaca gatatttttc tccagaagat 600
 60 ggtgtctggt atataaatca tcaaatatag ggaatgctta ggggtctcta ctgtggcaaa 660
 62 tgcgaactgt tgaatttacc ttatatttgc aaaaaccacaa atgagacttc ttaagttttg 720
 64 tttaacuatg tttttctgtg atgaataaaa ctactgtgtg actgtccagg taggaacaaa 780
 66 tttctcttct tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 840
 68 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 900
 70 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 960
 72 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1020
 74 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1080
 76 ttctgcatac taacctannn nnnnctccct ttaagggtgt aaacttgcac ctcattgtcca 1140
 78 ctatgtgaaa atattgtga atataatga atataatga atataatga atataatga 1200
 80 ctatgtgaaa atattgtga atataatga atataatga atataatga atataatga 1260
 82 ctatgtgaaa atattgtga atataatga atataatga atataatga atataatga 1320
 84 ctatgtgaaa atattgtga atataatga atataatga atataatga atataatga 1380
 86 ctatgtgaaa atattgtga atataatga atataatga atataatga atataatga 1440
 88 ctatgtgaaa atattgtga atataatga atataatga atataatga atataatga 1500

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PATENT APPLICATION: US/09/479,145A

DATE: 01/18/01

TIME: 14: 01: 01

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1st - 212 - LOCATION: (11...111)

200 - 213 - OTHER INFORMATION: degenerate primer corresponding to deduced opal protein sequence;

201 n at positions 7, 10, 13, 16, 19, and 22 may be t, a, g, or q

203 - 400 - SEQUENCE: 4

205 tttcatntcn tcntcngtng gn

22

VERIFICATION SUMMARY

PATENT AFFILIATION: US/09/479,145A

DATE: 07/25/2001

TIME: 14:00:00

Input Set : A:\96700-595.ST25.txt

Output Set : N:\CRF3\07252001\I479145A.raw

L:76 M:341 W: (40) "n" or "Naa" used, for SEQ ID#:1
L:183 M:341 W: (40) "n" or "Naa" used, for SEQ ID#:2
L:205 M:341 W: (40) "n" or "Naa" used, for SEQ ID#:3